

GenCore version 4.5
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OM protein - protein search, using sw model
Run on: March 1, 2001 15:47:15 ; Search time 210.42 Seconds
(without alignments)
6.988 Million cell updates/sec

Title: US-09-331-631A_5_COPY_33_75
perfect score: 248
Sequence: NQEDRTECOCQRRRCQEE.....RQQYCQRKKEICEEEBEY 43
Scoring table: BLOSUM62
Gappen 10.0 , Gapext 0.5

Searched: 268485 seqs, 34193795 residues

Total number of hits satisfying chosen parameters: 268485

Minimum DB seq length: 0
Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : A_Genesed_36:*

1:	/SIDS1/gcdata/geneseq/geneseq/geneseq/geneseq/AA1980.DAT:*
2:	/SIDS1/gcdata/geneseq/geneseq/geneseq/AA1981.DAT:*
3:	/SIDS1/gcdata/geneseq/geneseq/geneseq/AA1982.DAT:*
4:	/SIDS1/gcdata/geneseq/geneseq/geneseq/AA1983.DAT:*
5:	/SIDS1/gcdata/geneseq/geneseq/geneseq/AA1984.DAT:*
6:	/SIDS1/gcdata/geneseq/geneseq/geneseq/AA1985.DAT:*
7:	/SIDS1/gcdata/geneseq/geneseq/geneseq/AA1986.DAT:*
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17:	/SIDS1/gcdata/geneseq/geneseq/geneseq/AA1996.DAT:*
18:	/SIDS1/gcdata/geneseq/geneseq/geneseq/AA1997.DAT:*
19:	/SIDS1/gcdata/geneseq/geneseq/geneseq/AA1998.DAT:*
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21:	/SIDS1/gcdata/geneseq/geneseq/geneseq/AM2000.DAT:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match %	Length	DB ID	Description
1	248	100.0	625	19 W62830	Macadamia integrifolia
2	241	97.2	666	19 W62829	Macadamia integrifolia
3	235	94.8	666	19 W62829	Macadamia integrifolia
4	110	44.4	525	19 W62831	Theobroma cacao an
5	110	44.0	566	13 R20181	Sequence encoded b
6	109	44.0	590	19 W62832	Gossypium hirsutum
7	96	38.7	28	19 W62841	Stenocarpus sinuatus
8	68.5	27.6	593	19 W62835	Zea mays antimicro
9	66.5	26.8	35	13 R21079	Antimicrobial maize
10	66.5	26.8	637	19 W62837	Hordeum vulgare an
11	65.5	26.4	33	19 W62835	Zea mays antimicro
12	65	26.2	910	20 Y22191	Mouse brain CNG-1

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed and is derived by analysis of the total score distribution.

ALIGNMENTS

Human androgen rec Androgen receptor	Human prostatamine 1.
Human androgen rec Androgen receptor	Mouse prostatamine 1.
Anti-human SC sing	Mouse prostatamine 1.
G. max truncated S	Anti-human SC sing
G. max SBP2 protei	G. max truncated S
Peanut allergen Ar	G. max SBP2 protei
Peanut allergen, A	Peanut allergen, A
Peanut allergen 11	Peanut allergen, A
HHV ORF 73 protei	Peanut allergen 11
Human 5' EST relat	HHV ORF 73 protei
Human cyclin d3 ps	Human 5' EST relat
Murine pcip protein	Human cyclin d3 ps
Human unliganded a	Murine pcip protein
Human androgen rec	Human unliganded a
Human androgen rec	Human androgen rec
Peanut allergen Ar	Human androgen rec
Arachis hypogaea a	Peanut allergen Ar
Amino acid sequenc	Arachis hypogaea a
Sequence of human	Amino acid sequenc
A secreted protein	Sequence of human
Neisseria meningit	A secreted protein
Neisseria meningit	Neisseria meningit
Human EDF-binding	Neisseria meningit
Human follistatin	Human EDF-binding
Glycine max antim	Human follistatin
Human cerebral pro	Glycine max antim
Dirofilaria immiti	Human cerebral pro
A human trichohyal	Dirofilaria immiti
Amino acid sequenc	A human trichohyal
Human cytoskeleton	Amino acid sequenc

13	65
14	65
15	65
16	63.5
17	63.5
18	63.5
19	63.5
20	63.5
21	63
22	63
23	63
24	62
25	61.5
26	61.5
27	61
28	60
29	60
30	60
31	59.5
32	59
33	59
34	58.5
35	58
36	58
37	58
38	57.5
39	57.5
40	57.5
41	57.5
42	57
43	57
44	57
45	56.5
	22.8

Total number of hits satisfying chosen parameters: 268485
 Minimum DB seq length: 0
 Maximum DB seq length: 200000000
 Post-processing: Minimum Match 0%
 Maximum Match 100%
 Listing first 45 summaries

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3: /SDS1/gcggdata/geneseq/geneseqp/AAI982.DAT:*
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```


XX
 DT 27-OCT-1998 (first entry)
 XX
 DE Stenocarpus sinuatus antimicrobial protein.
 XX
 KW antimicrobial protein; infestation; control.
 XX
 OS Stenocarpus sinuatus.
 XX
 PN WO9827805-A1.
 XX
 PD 02-JUL-1998.
 XX
 PF 22-DEC-1997; 97WO-AU00874.
 XX
 PR 20-DEC-1996; 96AU-0004275.
 XX
 PA (RETR-) COOP RES CENT TROPICAL PLANT PATHOLOGY.
 XX
 PI Bower NI, Goulter KC, Green JL, Manners JM, Marcus JP;
 XX
 DR WPI; 1998-377279/32.
 PT Novel anti-microbial protein from e.g. Macadamia integrifolia - useful for controlling microbial infestations of plants or mammals
 XX
 PS Claim 1; Page 66; 96pp; English.
 CC The sequence is that of an antimicrobial protein which can be used to control microbial infestations in plants and mammalian animals.
 CC
 CC animals.
 XX
 Sequence 28 AA;
 SQ
 Query Match 38.7%; Score 96; DB 19; Length 28;
 Best Local Similarity 63.0%; Pred. No. 0.0021; Matches 17; Indels 0; Gaps 0;
 Matches 3; Mismatches 7;
 AC R21079 standard; Peptide; 35 AA.
 XX
 AC R21079;
 XX
 DT 09-APR-1992 (first entry)
 XX
 DE Antimicrobial maize peptide, CMIII.
 XX
 KW Maize; CMIII; corn; pathogen.
 XX
 OS Zea mays.
 XX
 PN EP465009-A.
 XX
 PD 08-JAN-1992.
 XX
 PF 05-JUN-1991; 91EP-0305064.
 XX
 PR 05-JUN-1990; 90US-0536127.
 XX
 PA (PION-) PIONEER HI-BRED INT.
 PI Duvick JP, Rood TA, Rao AG;
 XX
 DR WPL; 1992-010214/02.
 XX
 PT Use of maize seed peptide CMIII and DNA encoding it - for killing or inhibiting plant pathogenic microorganisms.
 XX
 PS Example 2; Page 5; 21PP; English.
 DE Zea mays antimicrobial protein.
 XX
 KW antimicrobial protein; infestation; control.
 XX
 OS Zea mays.
 XX
 PN WO9827805-A1.
 XX
 PD 02-JUL-1998.
 XX
 PF 22-DEC-1997; 97WO-AU00874.
 XX
 PR 20-DEC-1996; 96AU-0004275.
 XX
 PA (RETR-) COOP RES CENT TROPICAL PLANT PATHOLOGY.
 XX
 PS Bower NI, Goulter KC, Green JL, Manners JM, Marcus JP;
 DR WPI; 1998-377279/32.
 XX
 PT Novel anti-microbial protein from e.g. Macadamia integrifolia -
 PT useful for controlling microbial infestations of plants or mammals
 XX
 PS Claim 1; Page 58-60; 96pp; English.
 XX
 CC The sequence is that of an antimicrobial protein which can be used to control microbial infestations in plants and mammalian animals.
 CC
 CC animals.
 XX
 Sequence 593 AA;
 SQ
 Query Match 27.6%; Score 68.5; DB 19; Length 593;
 Best Local Similarity 35.3%; Pred. No. 3.4; Matches 12; Conservative 10; Mismatches 11; Indels 1; Gaps 1;
 AC R21079;
 XX
 AC R21079;
 XX
 DT 09-APR-1992 (first entry)
 XX
 DE Antimicrobial maize peptide, CMIII.
 XX
 KW Maize; CMIII; corn; pathogen.
 XX
 OS Zea mays.
 XX
 PN EP465009-A.
 XX
 PD 08-JAN-1992.
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 PF 05-JUN-1991; 91EP-0305064.
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 XX
 KW antimicrobial protein; infestation; control.
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 XX
 PN WO9827805-A1.
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 XX
 PF 22-DEC-1997; 97WO-AU00874.
 XX
 PR 20-DEC-1996; 96AU-0004275.
 XX
 PA (RETR-) COOP RES CENT TROPICAL PLANT PATHOLOGY.
 XX
 PS Bower NI, Goulter KC, Green JL, Manners JM, Marcus JP;
 DR WPI; 1998-377279/32.
 XX
 PT Novel anti-microbial protein from e.g. Macadamia integrifolia -
 PT useful for controlling microbial infestations of plants or mammals
 XX
 PS Claim 1; Page 58-60; 96pp; English.
 XX
 CC The sequence is that of an antimicrobial protein which can be used to control microbial infestations in plants and mammalian animals.
 CC
 CC animals.
 XX
 Sequence 593 AA;
 SQ
 Query Match 26.8%; Score 66.5; DB 13; Length 35;
 Best Local Similarity 44.0%; Pred. No. 0.4; Matches 11; Conservative 6; Mismatches 7; Indels 1; Gaps 1;
 AC R21079;
 XX
 AC R21079;
 XX
 DT 09-APR-1992 (first entry)
 XX
 DE Antimicrobial maize peptide, CMIII.
 XX
 KW Maize; CMIII; corn; pathogen.
 XX
 OS Zea mays.
 XX
 PN EP465009-A.
 XX
 PD 08-JAN-1992.
 XX
 PF 05-JUN-1991; 91EP-0305064.
 XX
 PR 05-JUN-1990; 90US-0536127.
 XX
 PA (PION-) PIONEER HI-BRED INT.
 PI Duvick JP, Rood TA, Rao AG;
 XX
 DR WPL; 1992-010214/02.
 XX
 PT Use of maize seed peptide CMIII and DNA encoding it - for killing or inhibiting plant pathogenic microorganisms.
 XX
 PS Example 2; Page 5; 21PP; English.
 DE Zea mays antimicrobial protein.
 XX
 KW antimicrobial protein; infestation; control.
 XX
 OS Zea mays.
 XX
 PN WO9827805-A1.
 XX
 PD 02-JUL-1998.
 XX
 PF 22-DEC-1997; 97WO-AU00874.
 XX
 PR 20-DEC-1996; 96AU-0004275.
 XX
 PA (RETR-) COOP RES CENT TROPICAL PLANT PATHOLOGY.
 XX
 PS Bower NI, Goulter KC, Green JL, Manners JM, Marcus JP;
 DR WPI; 1998-377279/32.
 XX
 PT Novel anti-microbial protein from e.g. Macadamia integrifolia -

Page 6

flow rate. Modulators of BCNG can be used to treat a neurological, renal, pulmonary, hepatic or cardiovascular condition. Such conditions include epilepsy, Alzheimer's disease, Parkinson's Disease, long QT syndrome, sick sinus syndrome, age-related memory loss, cystic fibrosis, sudden death syndrome or pacemaker rhythm dysfunction. BCNG or BCNG-related protein can also be used to treat sensory disorders, e.g. blindness, loss of vision, loss of smell, numbness and lack of ability to taste. Also treatable are auditory disorders, respiratory disorders due to defects in central nervous system areas that control respiration or defects in the lungs, dyslexia, attention deficit disorder or learning disabilities, drug addiction and regulation of cell secretions. The proteins are useful targets for screening for drugs that are effective in the control of pain and hyperalgesia.

RESULT 14
 ID W14783
 Standard; Protein; 919 AA
 XX
 AC
 XX
 DT 22-JUN-1997 (first entry)
 XX
 XX
 XX

ESULT 13
 93109
 D P93109 standard; protein; 919 AA.
 X
 C P93109;

 PF 20-SEP-1996; 96W0-US15081.
 XX
 PR 20-SEP-1995; 95US-0004018.
 XX
 PA (WORC-) WORCESTER FOUND BIOMEDICAL RES

X 19-MAR-1990 (first entry)
 X
 X Human androgen receptor.
 X Human androgen receptor; monoclonal antibody; cancer.
 X Homo sapiens.
 XX Zamecnik PA;
 PT DR WPI: 1997-202879/18.
 PE DR N-PSDB; T63407.
 XX DR Oligonucleotide(s) antisense to human androgen receptor and acididic
 PT FGF genes - used to inhibit gene expression, for the treatment of
 PT benign prostatic hyperplasia

XX Disclosure; Page 22-28; 51pp; English.
PS
XX Human androgen receptor (W14783) binds
CC
CC

CC at the transcriptional level, regulates the growth of normal
CC prostatic cells. Antisense oligonucleotides (see also T63200,
CC T63404-05) based on an androgen receptor cDNA clone (see also
CC T63407) can be used to prevent androgen receptor gene expression,
CC thereby inhibiting the growth of prostatic cells for
CC

French FS, Wilson EM, Joseph DR, Lubahn DB; WPI: 1889-324206/44. N-PSDB; N9172.

CC
XX
SQ

the treatment of benign prostatic hyperplasia and prostate cancer.

Sequence 919 AA;

DNA encoding androgen receptor protein - useful for transforming eukaryotic host for protein expression and subsequent antibody produc-

Disclosure; Fig. 4; 41pp; English.

Androgen receptor protein (AR) is used to produce mono- or poly-clonal antibodies. These are used for the detection and quantification of AR in

the presence of endogenous androgen, as androgen will not interfere with binding. They may be used in assays to determine and quantify cellular distribution of AR in tumour tissue, and are esp. useful for evaluating prostate cancers to determine responsiveness to androgen withdrawal therapy.

RESULT	15
Y78914	
ID	Y78914 standard; protein; 919 AA.
XX	

Q	Sequence	919 AA;
Query Match		26.2%; Score 65; DB 10; Length 919;
Best Local Similarity	48.3%; Pred. No. 12;	
AC	XX	Y88914;
XX	DT	23-MAY-2000 (first entry)
XX	DE	Human androgen receptor (AR) amino acid sequence.
XX		

KW Androgen receptor; AR; androgen-independent activation; inhibitor;
 KW cancer; benign prostatic hyperplasia; hirsutism; androgenic alopecia;
 KW acne; breast cancer; Kennedy disease; prostate cancer.
 XX
 OS Homo sapiens.
 XX
 PN WO200001813-A2.
 XX
 PD 13-JAN-2000.
 XX
 PF 30-JUN-1999; 99WC-CA00604.
 XX
 PR 30-JUN-1998; 98US-0091871.
 PA (UYBR-) UNIV BRITISH COLUMBIA.
 XX
 PT Sadar MD, Bruchovsky N, Gout PW, Snoek R, Mawji NR;
 XX
 DR WPI; 2000-182113/16.
 XX
 PT Novel non-androgen ligand binding peptides for inhibiting
 PT androgen-independent activation of androgen receptor, used for
 PT screening compounds and for treatment of androgen-mediated diseases
 such as prostate cancer -
 XX
 Disclosure; Page 7; 32pp; English.
 PS
 XX
 CC This sequence represents the human androgen receptor (AR) amino acid
 CC sequence. The invention relates to a fragment of the AR corresponding to
 CC amino acids 234-391 (see Y78913). The fragment mediates
 CC androgen-independent activation of the AR. The androgen receptor acts as
 CC a transactivator factor, regulating the expression of certain
 CC androgen-responsive genes. Interaction of the AR with the protein kinase
 CC A signal transduction pathway involves interaction with the androgen
 CC independent region. The AR fragment and peptides derived from it can be
 CC used as agents for inhibiting androgen independent activation of the
 CC androgen receptor, as activation domains, and as a tool for screening for
 CC compounds which affect androgen-independent activation of the AR. The
 CC peptides, when used in combination with androgen deprivation, effectively
 CC limit androgen mediated disease progression. These diseases include
 CC cancer, benign prostatic hyperplasia, hirsutism, androgenic alopecia,
 CC acne, breast cancer, Kennedy disease, and especially prostate cancer. The
 CC peptides and nucleic acids encoding them, are especially used for the
 CC treatment of androgen-mediated diseases, especially prostate tumours in
 CC patients deprived of androgen.
 XX
 Sequence 919 AA;

SQ Query Match 26.2%; Score 65; DB 21; Length 919;

Best Local Similarity 48.3%; Pred. No. 12; Length 919;
 Matches 14; Conservative 6; Mismatches 9; Indels 0; Gaps 0;

QY	2 QEDPTEQQCQPRRCRQESDPROQQCQ 30
	: : : :
Db	61 qqqqqqqqqqqqqqqetsprqqqqqq 89

Search completed: March 1, 2001, 15:47:15
 Job time: 240 sec

